

T E R R A

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NATURAL HISTORY MUSEUM OF
LOS ANGELES COUNTY



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CALENDAR OF EVENTS INSIDE!

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IN DEFENSE OF SHARKS

Photographs by
Marty Snyderman

SHARKS HAVE OCCUPIED EARTH'S waters for more than 450 million years, a period of existence three times as long as that enjoyed by the dinosaurs. "There were sharks in the oceans of the prehistoric world long before the first backboned animals crawled onto land, before the first insects took to the air, even before many plants had effectively colonized the continents. If we could be transported to that distant time, sharks would be one of the few familiar



sights in a world of unfamiliar organisms."* But the modern sharks—the sleek, graceful, and wonderfully adapted animals found today—have an ancestry that goes back only about 100 to possibly 180 million years.

Through time, sharks have evolved a grand diversity that is not often reflected in popular print and broadcast reports of their activities. We most frequently hear

about the largest species. The great white shark (*Carcharodon carcharias*), which may reach lengths of 9 meters (30 feet) or more, commands attention on the rare occasions when it is seen by people. Although it has often been implicated in attacks on surfers and swimmers, the great white for the most part patrols coastal waters feeding on other fish, seals, and sea lions and cleaning the environment of carcasses and dying animals.

Another large species (it can be almost 3 meters, or 10 feet, in length) is the blue shark (*Prionace glauca*), which takes its popular name from the deep, brilliant color of its back. Blues, the commonest and most widespread sharks along the Pacific Coast, make round-trip dives to depths as great as 300 meters (1,000 feet) for as yet unknown reasons. These slender and graceful swimmers prefer a diet of fishes and squid but will eat almost anything, including garbage and carrion.

A smaller shark (up to 2 meters, or 6.5 feet) that is familiar to divers in deep waters near central Pacific reefs is the gray reef shark (*Carcharhinus amblyrhynchos*), a species that feeds primarily on reef fishes and cephalopods. Like the blues, these sharks are voracious eaters; their habits in groups gathered around a food source have given us the term "feeding frenzy."

Not all sharks are big and energetic. Horn sharks, which reach lengths of about 1 meter (39 inches), lounge sluggishly about the reefs and rocks of the sea floor. The species that may be the smallest, the spined pygmy shark (*Euprotomiscus bispinatus*), is only about 27 centimeters (11 inches) at most. This little torpedo-shaped fish lives in the deep sea and has adaptations to suit a dark, cold, high-pressure environment; the luminescent organs on its underside are probably useful in camouflage or in attracting or locating prey or mates.

Although sharp teeth tearing at flesh dominate people's images of sharks, plankton and small pelagic creatures are actually the staple food of several of the larger species, whose modes of feeding re-

semble those of the baleen whales. The whale shark (*Rhincodon typus*; to 18 meters, or 59 feet) and the basking shark (*Cetorhinus maximus*; to 13 meters, or 43 feet) are the giants among the sharks—the whale shark is in fact the world's largest fish. The extremely rare megamouth shark (*Megachasma pelagios*; 4.5 meters, or 15 feet), which was only first discovered in 1976, is another filter-feeder.

A CHARACTERISTIC shared by the diverse species of sharks is a skeleton composed of the tough but pliable material called cartilage; although their cartilage may be partly calcified, sharks lack true bone, and hence are referred to as cartilaginous fishes. Recently, shark cartilage has become the focus of a medical controversy, and of a situation of grave concern to ichthyologists and other

people who value marine life.

Many health food and drug stores and supermarkets now carry shark cartilage, in powder, pill, or liquid form. Although the cartilage is sold as a "dietary supplement," it has been hailed in literature on alternative medicine as something of a magic potion that can relieve aches and pains caused by arthritis, destroy cancerous tumors, or simply promote general health.

These are not novel ideas. For centuries, people have worn or ingested shark parts or products for their alleged medicinal or aphrodisiac properties. But interest in sharks became extremely widespread in 1993, when the CBS television program *60 Minutes* twice broadcast a segment on shark cartilage as a treatment for cancer. The investigative report centered on the results of a Cuban study in which several cancer patients had apparently improved

or had their disease go into remission after consuming shark cartilage for a few months. Although this single study was not conclusive, and the televised report included cautionary notes from several medical authorities, the broadcast was followed by a sharp increase in the demand for shark cartilage supplements, which has not abated in the years since. The result has been something of a human feeding frenzy on the cartilaginous fishes.

Shark cartilage products are rich in calcium and phosphorus and, therefore, are indeed "dietary supplements." But many who use them now do so in desperation, believing that some chemical component of the cartilage inhibits the growth of blood vessels that supply nutrients to tumors. Those offering this hope to cancer-stricken people have bolstered their arguments with the assertion that sharks do

ABOVE

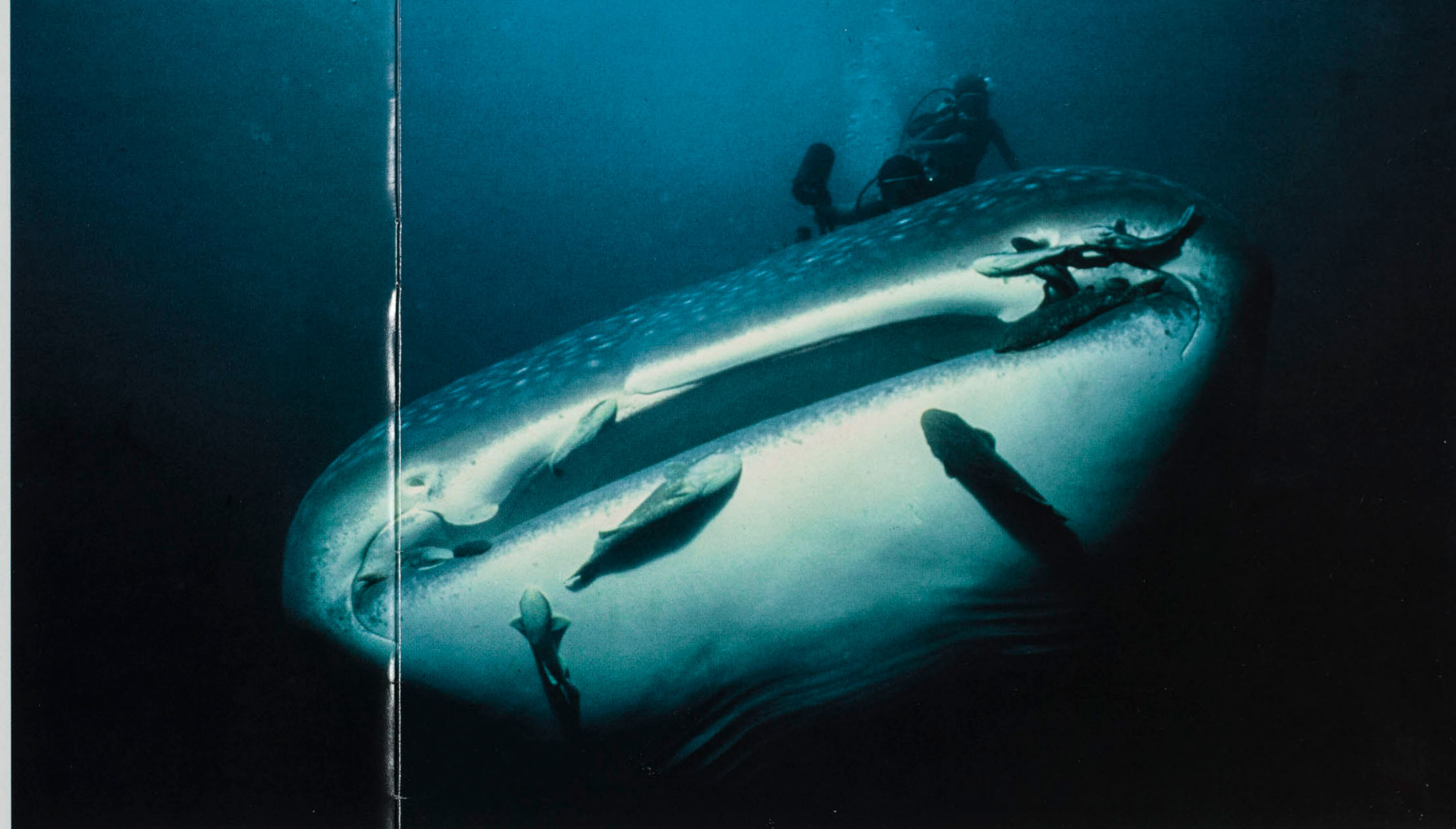
Two divers follow a whale shark (*Rhincodon typus*) as it moves toward the photographer. Remoras, fish that are thought to feed on parasites on their host's body or on scraps of its food, have attached themselves around the shark's mouth and nostrils by the sucking disks on the tops of their heads.

OPPOSITE

A diver holds a lemon shark (*Negaprion brevirostris*); this tropical species, which usually lives in shallow water, has been successfully kept in aquariums and has been the object of a number of scientific studies

COVER

A scalloped hammerhead shark (*Sphyrna lewini*) swims up, revealing the broad head "wings" that give it its common name. It is being cleaned of parasites by an entourage of barberfish.





not get cancer because they are protected from it by their built-in cartilage.

But Carl Luer, a senior scientist at the Mote Marine Laboratory in Sarasota, Florida, has found that sharks can indeed get cancer. Luer and other scientists think that shark cartilage may contain a chemical that inhibits the growth of blood vessels. However, to date, there is no scientific evidence that a mysterious blood-vessel-shrinking ingredient is present in the various cartilage products on the market, or that it could be absorbed by a human being, let alone find its way to tumors in sufficient amounts to be effective at starving diseased tissues.

Cancer investigations continue, but the Cuban data were less than compelling to the National Cancer Institute's Division of Cancer Treatment. Because of the great interest in the Cuban studies, the American Cancer Society has found it

necessary to state officially that there is no medical basis to claims of benefits from consuming shark cartilage.

SHARK POPULATIONS are already threatened to some degree by human activities in the late twentieth century. They face the problems affecting aquatic life everywhere—loss of breeding grounds and habitat to human development in the coastal zone, entrapment in gear meant for harvesting other species, and risk from water pollution. Because of their efficiency as predators and their relatively rare but often spectacularly horrifying interactions with human beings, individual sharks of even very innocuous species are sometimes brutalized by people. To these dangers to sharks' well-being, we are now adding a harvest of unprecedented dimensions.

We know that sharks are among the

top predators in most marine ecosystems and thus have important roles to play in the survival and health of their communities. But we still have much to learn about shark biology and natural history. And we need to learn even the most basic facts about some species. At what age do they first mate and reproduce, and for how many years does an individual remain reproductively active? Where do they mate, and where are the nursery grounds? How many young, or pups, are in each litter, and how many litters are borne each year? We must have the answers to these questions to be able to gauge the seriousness of our impact on a particular species.

Sharks have evolved in harmony and equilibrium with their environment and with other species for eons. But today thousands are being slaughtered annually in the manufacture of remedies of questionable merit, and in the absence of cri-

teria for conserving their populations and basic diversity. If we are to truly benefit from sharks in the future, we must give them some measure of protection now.

DR. ROBERT J. LAVENBERG
Acting Deputy Director for
Research and Collections

Sharks! Fact and Fantasy, an exhibition developed by the staff of the Natural History Museum, had its inaugural in Los Angeles in June 1990 and subsequently has been on view at sixteen museums in North America. Now, after a successful engagement at the Ibaraki Nature Museum in Japan, the exhibition has returned to Los Angeles, and visitors to the Exposition Park museum again have an opportunity to review the lore and obtain the facts about these magnificent creatures.

Marty Snyderman, a renowned photographer, author, and speaker specializing in the marine environment, is based in San Diego. His cinematography is prominent in films by the National Geographic Society, *Nova*, and *Mutual of Omaha's Wild Kingdom*, among others, and his images have appeared in many major books on sharks published in recent years. He is currently filming a documentary on the natural history of sharks and rays for the PBS series *Nature*.

OPPOSITE

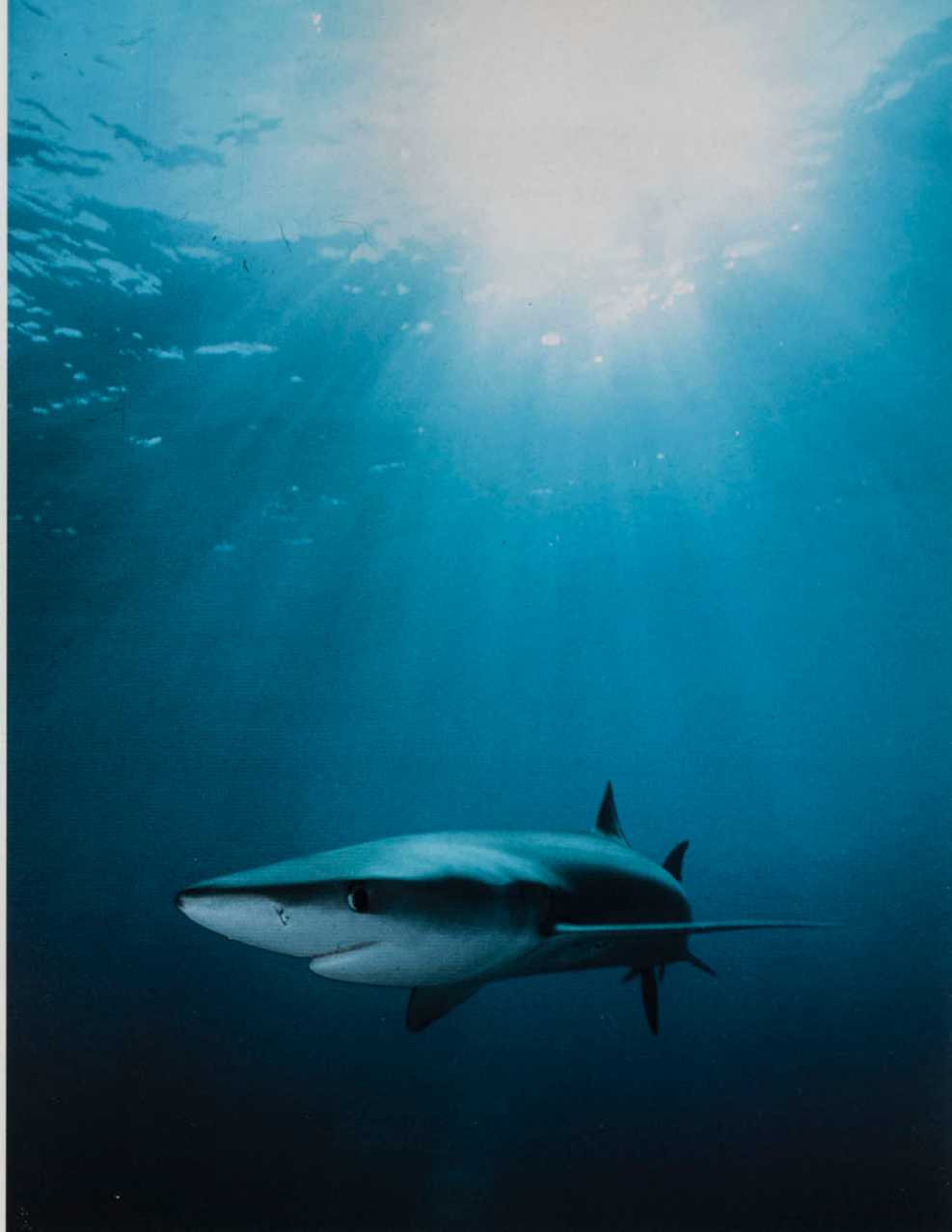
A solitary gray reef shark (*Carcharhinus amblyrhynchos*) swims over a sea fan.

THIS PAGE, BOTTOM

The lethargic horn shark *Heterodontus francisci* has elaborate nostrils (see page 11) with convoluted folds that enable it to detect faint odors.

ABOVE

A blue shark (*Prionace glauca*), an agile and particularly elegantly proportioned shark.



MUSEUM TREASURES

Memories of Maria and Julian Martinez

AN OBJECT MAY BE CALLED A treasure for any of a number of reasons. It may be one of a kind or of a very few; it may be composed of valuable materials; or it may be the creation of an important artist. A cherished item may have acquired its special status because of associated histories and meanings that it evokes for its owner. To a scholar, finding a specimen or artifact of interest along with the incontrovertible evidence that it is exactly what it seems to be can be like discovering gold.

In 1995, Mr. and Mrs. Harold J. Cohen gave a small but especially treasured portion of their once extensive collection of Native American art to the Natural History Museum, stating that "our motivation in giving it is to share it with people." The gift included a pottery vase by Maria and Julian

Martinez and two watercolors by Julian; with these objects came photographs, copies of letters to the Cohens from Maria, and memories of a long association between artists and collectors.

MARIA MARTINEZ (1887–1980), who enjoyed a worldwide fame as "Maria, the potter of San Ildefonso, New Mexico," was in reality half of a team: her husband, Julian (1884–1943), an artist himself, was the designer and decorator of the pots that she built. Around 1920, the Martinezes began to make a new kind of pottery ware—elegant vases, bowls, and jars polished to a high black gloss and painted with spare, matte-black designs. It was Julian who devised a complete suite of



motifs suitable for decorating the radically different "black-on-black" pieces.

Maria is said to have later remarked that they had just wanted to make something that would go with Art Deco.

Rena and Harold Cohen, who lived and worked in Washington, D.C., for many years, used their vacations to travel and enjoyed collecting indigenous arts on their trips. In 1938, they vacationed in New Mexico and, with an introduction from a fellow collector, sought out Maria and Julian Martinez in San Ildefonso. After their first visit, the Cohens kept in touch and purchased pottery by mail.

The Martinezes wrote, but only about important matters. During World War II, they were troubled when they heard that the Rio Grande was to be dammed, flooding the pueblo communities upstream. Maria's letter of February 27, 1943, addresses the bitter irony of their supporting the nation's war efforts and at the same time possibly losing their ancestral home:

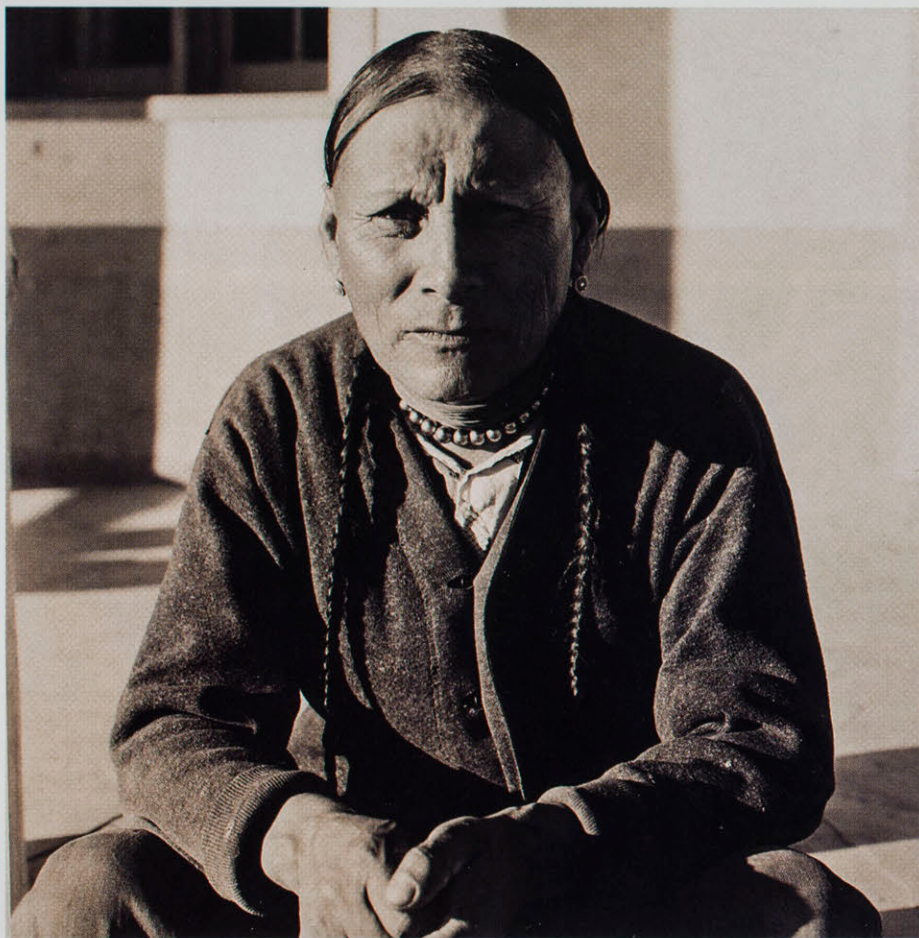
Here they are talking about putting the dam again so I am sending a slip of paper to ask you for help. I have three boys in the army. Those poor boys standing for their land and now they will flood our Village and our Ceremonial things. How sad for us after we have been living so happy. Please ask your friends too.

Rena, who worked for a Senate subcommittee, was able to learn that the rumor about the dam was unfounded and wrote a letter of reassurance to the Martinezes.

Later in 1943, Maria wrote to tell Rena that Julian had died:

It is a sad news to tell you that my dear husband Julian had pass away last month. I am so sad. But what can we do? . . . I will miss him in my work. We have been working together many years.

Soon after, Maria sent Rena two watercolors by Julian that had hung in his San Ildefonso studio. Rena had once admired them, and now Maria thought that Julian





would have liked for her to have them. The two paintings were included in the Cohens' donation to the Natural History Museum.

TODAY, because of his fame, we need a clear history of ownership to be certain that a piece purported to have been done by Julian Martinez is actually his work, and watercolor scenes that can be so securely attributed to him are rare. Thus, the personal stories attached to the Cohens' gift make it especially valuable. Someday, an anthropol-

ogist or art historian studying the work of Julian Martinez will find a treasure in the collections of our museum.

DR. MARGARET ANN HARDIN
Curator and Head of Anthropology

The Martinezes' pottery and Julian's watercolors are included in a new exhibition, Museum Treasures, which features items from the Natural History Museum's holdings that have been selected by the curators because of their beauty, rarity, public appeal, or scientific, historical, or artistic significance.



OPPOSITE, TOP

Vase, black-on-black pottery, circa 1940, by Maria and Julian Martinez of San Ildefonso. Photograph by Dick Meier.

OPPOSITE, BOTTOM

Julian Martinez, circa 1940. Photograph by Wyatt Davis; courtesy Harold and Rena Cohen.

THIS PAGE, TOP

Maria Martinez, circa 1940. Photograph by Wyatt Davis; courtesy Harold and Rena Cohen.

BOTTOM

Untitled paintings of Pueblo (left) and Plains Indian men, watercolors, 1920–1940, by Julian Martinez of San Ildefonso. Julian received commissions for murals, and at several points in his artistic career, explored realistic subjects, like the men in these small paintings. But he is best known for his watercolor studies of designs for the pots he created with Maria.

FROM THE PRESIDENT AND DIRECTOR

IF THE LOS ANGELES COUNTY Safe Neighborhood Parks Act of 1996 receives a majority vote in the November 5 election, our museum will receive \$5 million for vitally needed capital improvements. The measure—Proposition A on the ballot—will also provide for renovations to beach and mountain recreation areas, cultural facilities, and neighborhood parks in every part of Los Angeles County.

The measure was initiated by People for Parks, with the goal of providing “safe places for our children and grandchildren to play and improved opportunities for our families to explore and learn together.” Supplemental support for the on-going renovation of Exposition Park is among the park projects selected for funding by the coalition of community and environmental groups that drafted the act.

Possible improvements at the Natural History Museum include restoration and revamping of permanent galleries in the Exposition Park facility that have not seen major improvement for several decades. The Hall of Native American Cultures and the Great Bird Hall, our newest installations, suggest how state of the art educational and exhibitry techniques could be used in older exhibitions to reflect current visitor interests while incorporating new scholarship and recently acquired artifacts and specimens.

We would also like to enhance basic visitor facilities, such as the cafe and gift shops. And improved housing for some of our world-renowned collections may be possible. Up-to-date storage would help us better preserve our treasures as well as make them more accessible for wider use.

The Safe Neighborhood Parks Act has been endorsed by many major law enforcement, environmental, senior citizen, and homeowner groups, by dozens of cities and numerous Republican and Democratic elected officials, and by chambers of commerce throughout the county. All Proposition A expenditures will be sub-

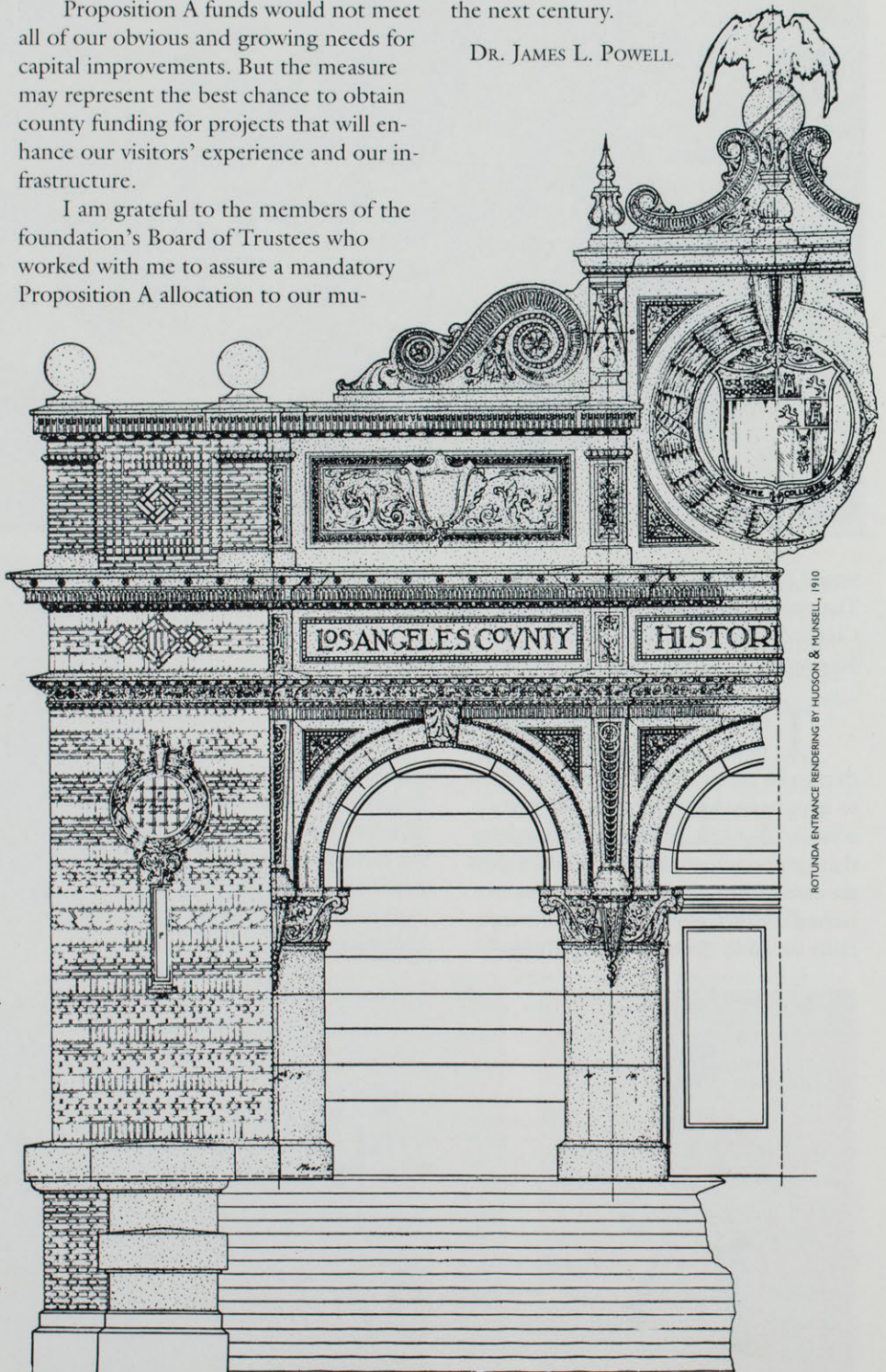
ject to an independent audit to assure appropriate and efficient use of the money.

Proposition A funds would not meet all of our obvious and growing needs for capital improvements. But the measure may represent the best chance to obtain county funding for projects that will enhance our visitors’ experience and our infrastructure.

I am grateful to the members of the foundation’s Board of Trustees who worked with me to assure a mandatory Proposition A allocation to our mu-

seum, and I look forward to using the funds to help bring the institution into the next century.

DR. JAMES L. POWELL



ROTUNDA ENTRANCE RENDERING BY HUDSON & MUNSELL, 1910

EXHIBITIONS AND SPECIAL EVENTS

■ **Sea Stars, Sea Urchins, and Allies**, November 2, 1996, to January 26, 1997, East and West Ground Floor Galleries, Museum of Natural History, Exposition Park. More than forty color photographs of Caribbean echinoderms in their tropical habitats portray the diverse forms of these exquisite marine creatures and illuminate remarkable aspects of their lifestyles.

■ **Sharks: Fact and Fantasy**, November 9, 1996, through January 5, 1997, Dart Gallery, Museum of Natural History, Exposition Park. The Natural History Museum's exhibition on these much maligned inhabitants of the seas, the largest and most comprehensive ever mounted, returns to Los Angeles from its extensive tour of other museums, including a most recent showing in Japan. Life-size models and interactive displays illustrate shark senses, feeding habits, and evolution as well as the relationships between sharks and humans expressed in myth and folklore.

■ **The Flintstones' Din-o-scovery**, through 1996, Dinosaur Hall, Museum of Natural History, Exposition Park. Colorful interactive displays, featuring Fred Flintstone® and his friends, enhance the museum's impressive array of skeletons of dinosaurs and other extinct animals.

■ **Museum Treasures**, opens November 23, 1996, Director's Gallery, Museum of Natural History, Exposition Park. A special exhibition of specimens and objects from the Natural History Museum's collections, each personally chosen by one of the museum's curators for its beauty, rarity, public interest, or scientific, historical, or artistic significance.

■ **Automobile State of the Art, 1905-1910**, through 1996, Second Floor Galleries, Petersen Automotive Museum. This exhibition of more than twenty automobiles, including a 1905 Oldsmobile Model "B" Curved Dash Runabout and a 1906 Pungs-Finch Limited, offers a glimpse into the period of transition from "horseless carriage" to modern motorcar.

■ **Arthur Drooker: Ten for the Road**, through February 1997, Second Floor Galleries, Petersen Automotive Museum. In this thought-provoking series of ten digital photographic collages, the years and states of origin of automobile license plates serve as points of departure for the artist's interpretation of cultural icons and momentous events in U.S. history.

On view in the Third Floor Galleries at the Petersen Automotive Museum

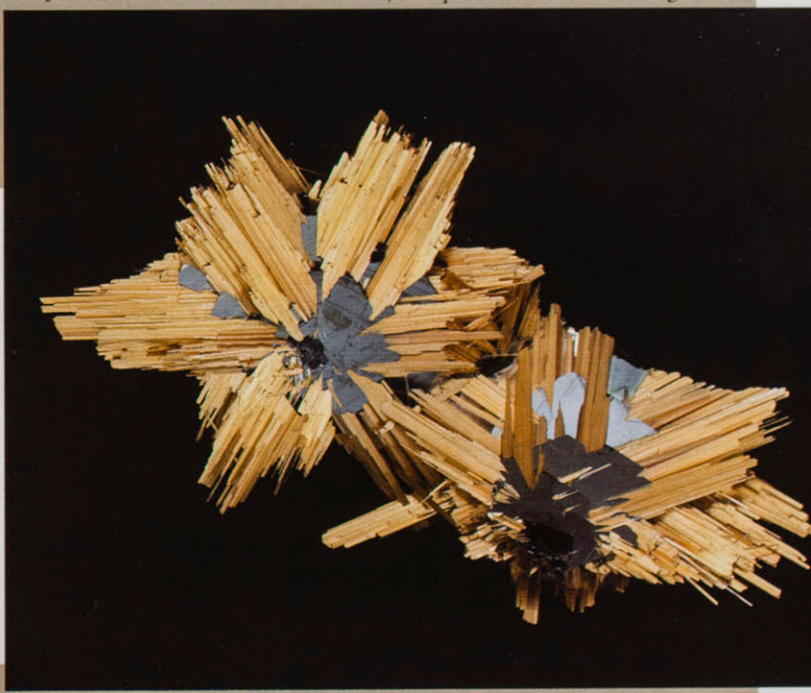
Harley Legends, through 1996. A rare collection of vintage, new, and custom Harley-Davidsons on loan from collectors around the world chronicles the 90-year history of the sole remaining U.S. motorcycle manufacturer.

Creative Wood Sculpture by W.W. Fayette, through December 1, 1996. Meticulous craftsmanship and a thorough knowledge of the automobile mark the polished relief sculptures of this avocational artist.

Angry Cars and Crowded Freeways: Works by Phil Morrell, through 1996. With bold strokes and vivid interplay of bright and dark colors and themes, Morrell dramatizes the body language of drivers competing for space and speed.

Wood on Wheels: Photographs by Gayle Fann, through January 26, 1997. Fann showcases surfboards, sand, and beach culture kitsch, in celebration of the Woodie, the quintessential beach wagon.

This recent acquisition dramatically illustrates epitaxy, one of the most intriguing types of mineral intergrowth. Bundles of golden rutile needles project in six directions from the surfaces of each of two black hematite cores. The rutile needles have grown here "epitactically" by aligning their atoms with similarly arranged portions of the atomic structure of the hematite. This specimen, measuring 7.5 centimeters (3 inches) across and considered to be the finest of its kind, comes from Itabiara in the Brazilian state of Bahia. It was purchased for the museum by Melvin S. Hindin while he was on a 1994 trip to Brazil sponsored by the Natural History Museum's Gem and Mineral Council. Hindin is a member of the council's board of directors and a museum docent. The specimen is on display in the Hall of Gems and Minerals in the Exposition Park museum. — *Dr. Anthony R. Kampf, Curator of Mineralogy.*



PHOTOGRAPH BY HAROLD AND ERICA VAN PELT

PROGRAMS FOR MEMBERS AND VISITORS

LECTURES & SPECIAL EVENTS

Lecture and booksigning

■ THE CASE FOR MARS

Colonizing the Red Planet

Monday, November 4, 7 p.m., Griffith Observatory, 2800 Observatory Road

Robert Zubrin, Senior Engineer for Martin Marietta Aeronautics and the nation's leading theorist on Mars exploration, discusses his provocative new vision of the Red Planet. Zubrin, who created the landmark Mars Direct Plan for NASA, will help us envision traveling to Mars and will detail strategies for exploration and ultimate colonization. Cosponsored by the Natural History Museum and the Friends of the Observatory. \$4 adult nonmembers; \$2 FOTO and museum members, children ages 5 to 12, and seniors.

■ DISCOVERY DAY!

Saturday, November 16, 11 a.m. to 2 p.m., Museum of Natural History, Exposition Park

The Natural History Museum is pleased to again present one of our most popular programs from the past! Discovery Day offers you the opportunity to bring your unidentified treasures from nature or science into the museum to be examined and identified by our curators. Students can also learn how these museum professionals turned their passion for the natural world into a career.

The curators staffing Discovery Day have expertise in geology, mineralogy, botany, recent and fossil invertebrate animals (the insects, annelid worms, mollusks, crustaceans, and echinoderms), and recent and fossil vertebrate animals (fishes, frogs and toads, lizards, snakes, birds, and mammals). Appraisals will not be given. Free with museum admission.

ADULT CLASSES

■ PINE NEEDLE BASKETRY

Saturday, November 23, 9 a.m. to 4 p.m., George C. Page Museum, Hancock Park



In this full-day workshop with master basket maker **Judy Mulford**, you'll use fragrant California Pine needles to create a beautiful and functional coiled basket. We'll explore various stitching and basket-shaping techniques as well as lid and pattern design. Students of all experience levels welcome; all materials are provided. \$50 members, \$60 nonmembers.

■ PREHISTORIC PREDATORS

The Evolution of Sharks

Saturday, December 14, 9:30 a.m. to 12:30 p.m., Museum of Natural History, Exposition Park

Sharks were swimming in ancient seas more than 450 million years ago, and their basic blueprint has changed little over the last 100 million years. Vertebrate paleontologist and museum curator **Dr. J.D. Stewart** will discuss sharks' evolutionary success while giving us an opportunity to examine the museum's vast collection of fossilized shark remains, including those of *Isurus hastalis*, the ancient ancestor of the modern great white shark. Participants can sift matrix from California's famous Shark Tooth Hill and examine it microscopically as they learn how paleontologists use the fossil record to uncover the mysteries surrounding the amazing cartilaginous fishes. You'll even get to keep the fossils you find. \$25 members, \$30 nonmembers.

ADULT FIELD TRIPS

■ THE STREETS OF L.A.

Saturday, November 9, 9:30 to about 11:30 a.m.

On a fascinating historical walking tour through downtown Los Angeles, we'll visit the Water Court in California Plaza, ride the newly opened Angel's Flight, discover the history of Grand Central Market and the Bradbury Building, and hear the inspirational story behind the construction of

the Biddy Mason Wall. Los Angeles Conservancy docents, including popular walk leader **Joe Spencer**, lead this sojourn through our city's streets. Participation is limited, so register early for this interesting trip. \$20 members, \$25 nonmembers.

A research expedition

■ DIVE INTO THE REALM OF THE SHARK

Saturday, November 23, 7 a.m. to 5 p.m. Open to adults and children ages 8 and up if accompanied by an adult

Join us on a breathtaking voyage into the mysterious realm of the blue shark. We'll safely enter the water in the protected setting of a specially designed snorkeling cage to observe blue sharks in their natural habitat off the coast of Santa Catalina Island. Participants may even have the opportunity to assist researchers from the Southern California Marine Institute in their ongoing juvenile blue shark tagging program. Marine biologists from the Hydrosphere team will give presentations and lead workshops on shark behavior and natural history, oceanography, and navigation.



Masks, snorkels, and children's wetsuits provided; adults provide their own wetsuits. We depart from Terminal Island in Long Beach; all participants should pack a bag lunch, snacks, and drinking water. \$75 members, \$85 nonmembers.

■ TRACKING THE MONARCH BUTTERFLY

Orientation: **Thursday, December 12, 7** to 8:30 p.m.; field trip: **Sunday, December 15, 10 a.m.** to 2 p.m.

Each year, monarch butterflies living west of the Rockies migrate hundreds of miles to spend the winter on the mild California coast. While visiting a wintering roost in Santa Barbara, we'll observe thousands of these butterflies. In the orientation class, **Walt Sakai**, a lepidopterist and professor of life sciences at Santa Monica City College, discusses the monarch's life cycle and migratory behavior. On the field trip, we'll learn to tag the monarchs so that naturalists can track their migration. Participants provide their own transportation and lunch. \$14 members, \$18 nonmembers.

■ THE RICHNESS OF OUR ROOTS A Visit to Historic Los Angeles

Saturday, January 11, 1997, 10 a.m. to noon, or 11 a.m. to 1 p.m.

Docents from El Pueblo de los Angeles Historic Park lead us back in time to explore the history of our ethnically diverse city. We'll learn about the city's early Spanish and Mexican settlements as we tour the Pueblo and its underground passages, which have served the city in different eras as wine cellars, housing for Chinese immigrant workers, and—according to police reports—gambling dens! We'll also see the Avila Adobe, the Old Plaza Firehouse, the Sepulveda House, and several other historical buildings. \$15 members, \$20 nonmembers.

■ YELLOWSTONE IN WINTER February 17 through 23, 1997

Explore the wonders of Yellowstone and discover the beauty of winter in the world's first National Park. On our sojourn, we'll experience the resplendent geology of the

region as we visit Old Faithful, Upper and Lower Falls, Jackson Hole, and the Grand Tetons. Traveling by snowcoach and sleigh, you'll see moose, bison, otters, trumpeter swans, big horn sheep, Bald Eagles, and other wildlife attracted to the year-round warmth provided by Yellowstone's geysers and fumeroles.

We'll pass over the Continental Divide as we travel to the Old Faithful Snow Lodge, just steps from Yellowstone's Geyser Basin. We will learn about the park's current program to reintroduce wolves into the region from the director of the Teton Science School, and we'll take an open sleigh ride among thousands of wintering elk at the National Elk Refuge.

Optional opportunities include afternoons of cross-country and downhill skiing. \$1,144 members, \$1,194 nonmembers; airfare not included; a deposit of \$250 is required upon registration. Single occupancy options are available.

CHILDREN'S CLASSES & WORKSHOPS

To ensure the best possible experience for your child, please abide by the age requirements stipulated in our program descriptions.

■ THE SHARK!

Nature's Perfect Predator

Saturday, December 7, 10 to 11:30 a.m., Education Classroom, Museum of Natural History, Exposition Park. Children in grades 1 through 3

Shark! The very name conjures up images of ferocious teeth and cold, unblinking eyes. Join marine educators from Hydrosphere as we separate fact from fantasy and discover what these sleek and successful fishes are really like. We'll even have a chance to touch live sharks and invertebrates in a special touch-tank. \$25 members, \$30 nonmembers.

■ WHITE SHARK

The Prehistoric Predator

Saturday, December 7, noon to 1:30 p.m., Education Classroom, Museum of Natural History, Exposition Park. Children in grades 4 through 6

Learn about the true nature of the great white shark as marine educators from Hydrosphere dispel the hysteria surrounding shark attacks. Touch live sharks, and discover the fascinating ways that these ancient fishes have adapted to life in their watery world. \$25 members, \$30 nonmembers.

■ CRAFT A CREATIVE CRITTER

Saturday, December 7, 2 to 4 p.m., George C. Page Museum. Students in grades 5 through 8

Let the ice age mammals of the Page Museum inspire you to design and build your own unique creature. Take a tour of the Tar Pits, and discover what life was like in Los Angeles 40,000 years ago. Then enjoy an afternoon snack, and take your critter



Photographs: *Opposite, top:* pine needle basket, Dick Meier. *Opposite, bottom:* scuba-diving children and blue shark, courtesy Yehuda Goldman. *Left:* horn shark snout, Stephen Benavides; courtesy Underwater Photography Society.

PROGRAMS FOR MEMBERS AND VISITORS CONTINUED

creation home with you. \$15 members, \$20 nonmembers.

FAMILY PROGRAMS

■ ANZA BORREGO WEEKEND

A "Catered" Family Camping Trip

Friday through Sunday, November 1 to 3. Open to families with children of all ages

Explore the beauty of Anza Borrego State Park with two of our favorite trip leaders,

museum geologist and paleontologist **Dr. Dave Whistler** and gourmet cook **Helen Whistler**. On our weekend adventure we'll uncover the secrets of the desert and discover the spectacular variety of wildlife that calls this area home. We'll take nature hikes and roast marshmallows around the evening campfire. Best of all, parents can relax while our trip leaders prepare all three meals on Saturday as well as breakfast on Sunday. Bring your own camping gear (tents only; no campers or trailers, please)

and a sense of adventure—we'll take care of the rest. \$65 child, \$95 adult members; \$75 child, \$105 adult nonmembers.

■ TAGGING THE MONARCH BUTTERFLY

Orientation: **Thursday, December 12**, 7 to 8:30 p.m.; field trip: **Saturday, December 14**, 10 a.m. to 2 p.m. Children ages 10 and older, accompanied by an adult.

This is a special opportunity for your child

WINTER ADVENTURES IN NATURE

Monday, Tuesday, Thursday, and Friday, December 30 and 31 and January 2 and 3, Museum of Natural History, Exposition Park

Children ages 3 through 10 can learn about nature firsthand in exciting participatory sessions with outstanding museum instructors. Courses offer opportunities to work with natural history specimens and artifacts, visit curatorial laboratories, and make craft items to take home.

■ For ages 3 & 4 (with accompanying adult)

Furry Friends, Monday, December 30

Visit with a rabbit and learn about other mammals on safari in the mammal halls.

Pint-sized Paleo, Tuesday, December 31

Discover the world of dinosaurs and paleontologists, and try digging for fossils!

Tidepool Treasures, Thursday, January 2

Learn about the ocean's invertebrates, and touch real natural history specimens.

Winged Wonders, Friday, January 3

Find out what life is like for the birds and why these creatures have feathers instead of fur.

■ For age 5

Arachnophilia, Monday, December 30

Investigate the world of spiders and handle live specimens on a museum spider safari.

Bug-O-Rama, Tuesday, December 31

Handle live insects and go on a collecting trip around museum.

Dig Those Dinosaurs! Thursday, January 2

Become a paleontologist for the day, visit a museum laboratory, and make fossil casts to take home.

Dem Bones, Friday, January 3
Examine skeletons and discover the stories that bones can tell.

■ For ages 6 & 7

Spider Smarts, Monday, December 30

Shake hands with Arachne, the tarantula, and spin webs, make egg sacks, and molt like she does!

Beastly Body Parts, Tuesday, December 31

Visit the museum's mammal halls, and meet some live animals with unique adaptations to their environments.

Fossil Facts, Thursday, January 2

Mineralize "bones," sink animals in "tar," make amber traps, and find fossils in a mock dig site.

Scales & Tales, Friday, January 3

Visit the museum's Marine Biology Hall and Seamobile, and conduct experiments and dissections.

■ For ages 8 to 10

Conservation Caretakers, Monday, December 30



Find out about endangered animals and what you can do to help.

Awesome Arachnids, Tuesday, December 31

Get up close and personal with Arachne, the rosy-haired tarantula, and experience a spider molt!

Sea Scientists, Thursday, January 2

Work as a marine biologist, conducting experiments and performing a dissection.

Can You Dig It? Friday, January 3

Dig for fossils in a mock dig, and see the steps that lead to their display in a museum.

Classes for 3- and 4-year-olds (with accompanying adult), which are limited to ten child/adult pairs each, run 10 a.m. to noon. Each class is \$25 child/adult pair, members; \$30 child/adult pair, nonmembers; if the same child enrolls in two or more classes, each class is \$20 members, \$25 nonmembers.

Classes for 5-year-olds, which are limited to 15 students each, are from 10 a.m. to noon. Each class is \$25 members, \$30 nonmembers; if the same child enrolls in two or more classes, each class is \$20 members, \$25 nonmembers.

Classes for children ages 6 and up, which are limited to 20 students each, last from 10 a.m. to 3 p.m. (participants bring a bag lunch and beverage). Each class is \$40 members, \$45 nonmembers; if the same child enrolls in two or more classes, each class is \$35 members, \$40 nonmembers.



PHOTOGRAPHS BY JOHN DE LEON

FAMILY FUNDAYS!

These hands-on family programs are **free** with museum admission for children ages 4 and older. They are held in the Discovery Center of the Museum of Natural History in Exposition Park. No reservations are necessary, but space in some programs is limited, so please arrive early.

PAPERMAKING PARTY

Saturday, November 9, 1:30 p.m.

With artist **Peggy Hasegawa**, learn to make paper using a combination of Japanese and Western techniques.

A DICKENS OF A CHRISTMAS

Saturday, December 7, 1:30 p.m.

The performers **Time Out of Mind** lead a Victorian celebration, complete with ornament-making and caroling.

to experience what it is like to be a scientist. Each year, monarch butterflies migrate hundreds of miles to spend the winter on the mild California coast. On our field trip to Santa Barbara, we'll visit one of their preferred roosting sites. With **Walt Sakai**, a lepidopterist and professor of life sciences at Santa Monica City College, we'll learn to tag the monarchs so that naturalists can track their migration. Participants provide their own transportation and lunch. \$14 members, \$18 nonmembers.

ANNOUNCEMENTS

THE MEMBERS' LOAN SERVICE

Extend the museum experience with the unique borrowing privileges available to you as a benefit of museum membership! The Members' Loan Service has science specimens, historical objects and models, cultural artifacts, and our latest additions—thematic teaching kits—available for loan for classroom enhancement, special projects, or home study.

All loan materials are carefully selected for their educational value and relevance to the elementary curriculum. The thematic

kits, complete units conveniently packed within a traveling trunk, each cover a separate topic, such as sharks, whales, the folk art of Latin America, and the culture and life of the Chumash and Gabrielino Native Americans. Kits include a variety of hands-on artifacts, children's books, posters, videos and audio tapes, along with an educator's notebook filled with background information and ideas for classroom activities.

For a \$5 fee, three individual items may be borrowed for a 2-week period; teaching kits rent for \$10 for a 2-week period. For more information, please call the Loan Programs Coordinator at 213/744-3345, or visit the Members' Loan Service counter, located in the Discovery Center at the Exposition Park museum. **Program hours: Thursdays, 2 to 4:30 p.m., and Saturdays, 10 a.m. to 2 p.m.**

PUBLIC PROGRAMS RESERVATION FORM

■ **By telephone:** Use your MasterCard or VISA. Call the Education Division at 213/744-3534, weekdays, 8 a.m. to 4 p.m. Credit cards are accepted only with a minimum charge of \$20.

■ **By mail:** Complete the form below, fill in the charge information or enclose a check payable to Museum Foundation, and return your order form and payment with a self-addressed, stamped envelope. The form may be duplicated. Mail to: **Education Division, Natural History Museum, 900 Exposition Boulevard, Los Angeles, CA 90007**

■ **Important: Reservation, Waiting List and Refund Policies.** Preregistration is required for all classes, workshops, and field trips and is recommended for all other Education Division programs. Tickets to auditorium events may be purchased at the door; seating is not reserved. Reservations are not necessary for Family Fundays.

Applicants for filled programs will be placed on a waiting list and contacted if vacancies or rescheduling occur. If you have paid for a filled program, your payment will be refunded in 4-6 weeks.

Cancellations must be made one week prior to the first day of the event for the registrant to be eligible for a refund. Only if we are able to fill your space will the fee be refunded.

Dates and times of programs are subject to change, and class sizes are limited. Please call 213/744-3534 weekdays between 8 a.m. and 4 p.m. to verify program dates, times, and availability.

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MUSEUM ON THE MOVE

■ DONATIONS OF NATIVE AMERICAN ARTS

Four recent gifts have enriched the museum's Native American collections. Sylvia and Frederick Reines of Irvine have donated a fine black-on-black San Ildefonso jar. The vessel, made by Maria Martinez in collaboration with her daughter-in-law Santana, is thought to date from around 1950.

Jim and Lauris Phillips of San Marino have given a delightful Zuni child's bracelet made sometime between 1935 and 1985. The silver piece is decorated with a figure constructed of turquoise, jet, and shell using a combination of channel and inlay techniques.

Hilda Ehrlich of Grants Pass, Oregon, has remembered the museum with a bequest of three Cape Dorset soapstone carvings dating from the 1960s.

Harold J. and Rena A. Cohen of Brentwood have given the museum ten pieces, including the San Ildefonso jar and paintings described in the article on pages 6 and 7. Their donation also included Navajo and Zuni pins, a Taos painting on deerhide, and a hand-sewn doll representing a Plains dancer.

Through their generosity, these indi-

viduals have made a significant contribution to the museum's ongoing emphasis on twentieth-century Native American arts.

■ PETERSEN MUSEUM DISCOVERY CENTER

At the Petersen Automotive Museum, construction has begun on a discovery center, a place where children and other visitors can explore automotive technology by examining and manipulating objects or interacting with special exhibitions. The new learning gallery will occupy 6,500 square feet on the museum's third floor; it is scheduled to open in April 1997.

The discovery center will help visitors unravel the mysteries of physics, showing *why* a car works and not just how. By providing simplified information through "hands-on" learning, the Petersen hopes to increase its audience of families and people with little or no automotive knowledge. To attract school groups, the center will also function as an extension of the classroom, in that its lessons will follow the Science Framework, the curriculum guide for the California Public Schools.

The new discovery center was initiated with a generous donation from the Wilbur May Family Foundation. Jim Olson, the

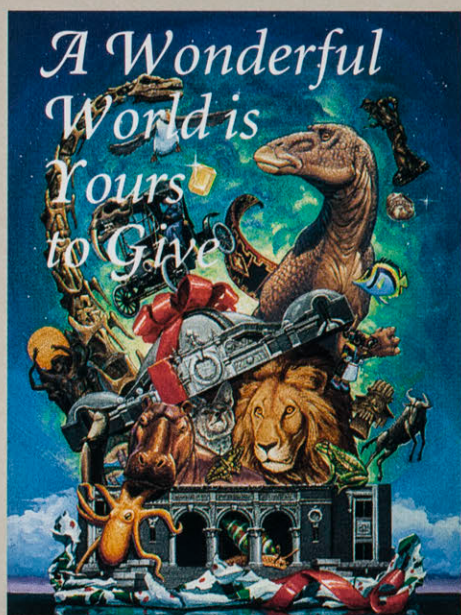
Petersen's acting director and Chief of Exhibits for the Natural History Museum, is project director. Joan Grasty, Natural History Museum Chief of Education, is responsible for the center's organization and content, and Cyrena Nouzille, a consultant who was on the museum's staff for many years, will provide interpretive planning and coordinate the installation.

MEMBERSHIP NEWS

■ BIRTHDAY PARTIES AT THE MUSEUM

A Discovery Party at the Museum of Natural History in Exposition Park is an exciting way to celebrate a child's birthday. You may choose from four adventurous themes for your party. The Rainforest Party includes tribal face painting, exploration of a tropical jungle habitat, and time for creating bows and arrows. The Insect Party offers exploration of the Insect Zoo Insectary and a chance to create insect environments. Guests at the Wild Life Party go on a safari through the museum's mammal halls and create their own binoculars. The Dino Party includes a tour of the Dinosaur Hall and a session making dinosaur nests and eggs.

All parties feature a live animal show



This holiday season, you can surprise someone with a membership in the Natural History Museum—and receive a 30 percent discount!

From November 15 through December 7, a Family membership is only \$35 (regularly \$50), and an Active membership is \$28 (regularly \$40).

Among the many benefits that your gift includes are unlimited free admission to four great museums; a subscription to *Terra*; invitations to members-only events; discounts on museum educational programs; and exciting travel opportunities.

A beautiful card and a gift membership packet will be sent to announce your gift.

Don't miss this opportunity to purchase a gift that will bring a full year of pleasure. To receive the special discount, please respond by December 7.

Your name(s)

Address

City

State

ZIP

Home ()

Business ()

Recipient's name

Address

City

State

ZIP

Home ()

Business ()

☐ Check enclosed (make payable to Natural History Museum Foundation)

Charge my

☐ American Express

☐ VISA

☐ MasterCard

☐ Discover

Account #

Expir. Date

Signature

Membership Category

☐ Family ~~\$50~~ \$35

☐ Active ~~\$40~~ \$28

Send notice of gift expiration to: ☐ Me ☐ Recipient

Gift Announcement

Please return this form to

**Membership Office, Natural History Museum,
900 Exposition Blvd., Los Angeles, CA 90007-4507.**

Or call 213/744-3426 for further information.



Discovery Center, Museum of Natural History, Exposition Park. Photograph by Josh Mitchell; courtesy Ray Wilson Company.

with a lesson led by our Education staff members and a period of exploration time in our popular Discovery Center. Party invitations and favors for all guests, a museum T-shirt for the birthday child, and cake and ice cream are included.

Birthday party privileges, which are reserved for members at the Contributing level (\$100) and above, may be arranged for a nominal fee. Please call Lisa Lee Cole, Birthday Party Coordinator, at 213/744-6027 for details. If you would like to upgrade your membership so that you are eligible for the birthday party benefit, please call the Membership Office at 213/744-3426.

■ GIFT MEMBERSHIPS

Give the perfect stocking stuffer this year! A membership in the Natural History Museum brings a full year's worth of fascination, imagination, and education all in one delightful package.

From November 15 to December 7, we are offering a special 30 percent discount on new gift memberships purchased at the Active (\$40) and Family (\$50) levels. Please use the application form on the opposite page or call the Membership Office at 213/744-3426 if you would like more information.

■ MATCHING GIFTS

Does your employer have a Matching Gift Program? Many southern California companies do, and these are a great way for you to easily double your support of the Natural History Museum. Ask your personnel department for information, or call the Membership Office at 213/744-3426.

■ THE PETERSEN MEMBERSHIP PROGRAM

We are pleased to announce that the Petersen Automotive Museum now has its own membership program dedicated to the

interests of automobile enthusiasts. At the basic level (\$50 annually), Petersen members will receive unlimited free admission to the Exposition Park and Page museums as well as the Petersen Museum; they will also receive the publication, *The Petersen Quarterly*. At higher levels of membership, Petersen members will receive *Terra* in addition to *The Petersen Quarterly*.

By becoming a member of the Petersen Automotive Museum or purchasing memberships as gifts, you can help ensure the growth of this popular new museum and its educational programming. For additional information, please call the Natural History Museum Membership Office at 213/744-3426 or Carrie Hoff, Petersen Membership Coordinator, at 213/964-6359.

■ DISCOVERING THE AMAZON: A MEMBERS' TRAVEL PROGRAM PREVIEW

Museum members are invited to meet naturalist Charles Wheatley, a marine biologist, oceanographer, and research diver, who will give a slide-illustrated lecture on one of the world's greatest ecosystems, the Amazon Basin.

Wheatley has served as lecturer, divemaster, and expedition leader on more than 80 voyages aboard the famed expedition vessel, *Explorer*. His presentation at the museum, which is sponsored by the Museum Travel Program, will act as an orientation for the members who will join him on a voyage along the full navigable length of the Amazon in May 1997.

The free lecture will be held on Monday, November 4, at 7:30 p.m., in the Connor Pavilion at the Petersen Automotive Museum. Please call Museum Travel Coordinator Karen Hovanitz at 213/744-3350 to reserve a seat or obtain more information.



PHOTOGRAPH COURTESY LIFE/LONG LEARNING

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As of September 30, 1996

The Natural History Museum exists to advance knowledge and to enable people of all ages, backgrounds, and interests to understand and appreciate their natural and cultural heritage. The museum assembles, conserves, interprets, and holds in trust collections of irreplaceable objects from nature and human history. These collections reveal the history of the Earth and the evolution and diversity of life and culture. They sustain programs of research, exhibits, education, and publication.

The **Museum of Natural History**, Exposition Park, is located at 900 Exposition Boulevard, Los Angeles 90007. The **George C. Page Museum of La Brea Discoveries** is located at 5801 Wilshire Boulevard, Los Angeles 90036. The **Petersen Automotive Museum** is located at 6060 Wilshire Boulevard, at Fairfax Avenue, Los Angeles 90036.

For recorded information on museum hours, admission fees for the general public, and days when no admission is charged, please call:

- Exposition Park Museum 213/744-DINO
- Page Museum 213/936-2230
- Petersen Museum 213/930-CARS

Admission to these museums is always free to members.

The **William S. Hart Museum** is located at 24151 San Fernando Road, Hart Park, Newhall 91321. Admission is free. For information on museum hours, please call:

- Hart Museum 805/254-4584

The Natural History Museum can be reached on the World Wide Web at <http://www.lam.mus.ca.us/lacmnh>

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Natural History Museum of Los Angeles County
Exposition Park, Los Angeles, California 90007

SHARKS!

SHOPPING SPREE

ESPECIALLY FOR THE SHARKS!

Fact & Fantasy exhibition, we've stocked a Sharks! Shop with entertaining and educating gifts, books, T-shirts, toys, and more. The new store features the handsome poster at right (\$5) as well as a colorfully illustrated catalog and guide to the exhibition. You can "fin-ish" your holiday shopping there!

So swim on down and prey on our new gift store. The Sharks! Shop and exhibition open November 9.

SHARKS! SHOP

Ground Floor, Museum of Natural History, Exposition Park
Shop information: 213/744-3488.
Special events: 213/744-DINO

OTHER STORES

George C. Page Museum of La Brea Discoveries: 213/857-6300
Petersen Automotive Museum: 213/964-6328



A Special Invitation

You are cordially invited to attend a most glamorous and spectacular event

THE 1997 DINOSAUR BALL

to be held March 15 at the Museum of Natural History, Exposition Park.

Dine and dance among the dinosaurs, and enjoy the world premiere of the museum's exciting new exhibition, *Cats! Wild to Mild.*

Tickets \$300 per person; for reservations and information, please call 213/744-3307.

